Name: _____   Date: _____

Cybersecurity Fundamentals Quiz for 11th Grade

How do digital certificates and SQL injections impact your safety? Identify core defense mechanisms in this 10-question assessment.

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1. A student receives an email that appears to be from their university's IT department asking them to 're-verify' their credentials via a link. This is an example of which social engineering tactic?

    A.   Whaling

    B.   Spear Phishing

    C.   DDoS Attack

    D.   SQL Injection

2. Biometric authentication, such as facial recognition or fingerprint scanning, is considered more secure than a standard password because it is unique to the individual.

    A.   True

    B.   False

3. When browsing the web, the presence of 'HTTPS' in the URL bar indicates that the data transmitted between your browser and the server is _____.

    A.   Deleted

    B.   Public

    C.   Encrypted

    D.   Compressed

4. Which of the following describes 'Zero Day' vulnerability?

    A.   A flaw that has been patched for over a year

    B.   A software flaw unknown to the developer that is exploited by hackers

    C.   A password that expires every 24 hours

    D.   A network that lacks any firewall protection

5. Using the same password across multiple high-stakes accounts (like banking and personal email) is a safe practice as long as the password is long.

    A.   True

    B.   False

6. A specialized piece of software or hardware that monitors and filters incoming and outgoing network traffic based on security rules is called a _____.

    A.   Router

    B.   Modem

    C.   Firewall

    D.   Switch

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7. What is the primary purpose of a Virtual Private Network (VPN) when using a public Wi-Fi network at a coffee shop?

    A.   To increase the internet upload speed

    B.   To download files more efficiently

    C.   To create a secure, encrypted tunnel for your data traffic

    D.   To charge your laptop wirelessly

8. The security practice of requiring two or more pieces of evidence to verify a user's identity is known as _____ Authentication.

    A.   Single-Factor

    B.   Binary

    C.   Multi-Factor

    D.   Proxy

9. 'Shoulder Surfing' refers to a physical security threat where someone watches you enter your PIN or password over your shoulder.

    A.   True

    B.   False

10. Which of these is the most effective way to protect your smartphone from unauthorized access if it is stolen?

    A.   Turning off the Bluetooth

    B.   Enabling a remote wipe feature and using a strong passcode

    C.   Deleting all your text messages daily

    D.   Keeping the phone in airplane mode